

Contents of Volume 48

Number 1

- 1 Optical properties and molecular orientation of self-assembled monolayer using surface plasmon resonance spectroscopy
S.-H. KIM, K.-S. OCK, J.-H. KIM, K.-N. KOH & S.-W. KANG (South Korea)
- 7 Synthesis and evaluation of organic pigments.
2. Studies of bisazomethine pigments based on planar nonmutagenic benzidine analogs
D. HINKS, H.S. FREEMAN (USA), Y. ARAI & H. ANDO (Japan)
- 15 Synthesis and evaluation of organic pigments.
3. Studies based on nonmutagenic twisted benzidines
J. SOKOLOWSKA (Poland), D. HINKS & H.S. FREEMAN (USA)
- 29 The effect of sample treatment and composition on the photoluminescence of anatase pigments
R. JANES, M. EDGE, J. RIGBY, D. MOURELATOU & N.S. ALLEN (UK)
- 35 Practical PPP molecular orbital calculations of absorption maxima of quinones.
Part 2. Evaluation of the spectrochemical softness based on the absolute hardness
K. HIRUTA, S. TOKITA, T. TACHIKAWA & K. NISHIMOTO (Japan)
- 43 Oxazolonaphthalimides and their hydroperoxides: photophysical and photobiological properties
W. YAO & X. QIAN (People's Republic of China)
- 49 Spectroscopic and photochemical studies of xanthene and azo dyes on surfaces: cellophane as a mimic of paper and cotton
L.C. ABBOTT, P. MacFAUL, L. JANSEN, J. OAKES, J.R. LINDSAY SMITH & J.N. MOORE (UK)
- 57 The aftertreatment of acid dyes on nylon 6,6 fibres
Part 1. 1:2 pre-metallised acid dyes
S.M. BURKINSHAW & Y.-A. SON (UK)

Number 2

- 71 A study of *N,N'*-dicarboxyalkylthiacarbocyanines as cyanine direactive dyes covalently bound to cellulose
R.E.F. BOTO, A.S. OLIVEIRA, L.F. VIEIRA FERREIRA & P. ALMEIDA (Portugal)
- 85 Synthesis and spectral properties of new soluble naphthalocyaninatometal derivatives
CHEN PENGLEI, WANG XIAOBING, TANG DAIHUA, ZHEN ZHEN, ZHANG JIANCHENG & LIU XINHO (PR China)
- 93 Synthesis and evaluation of organic pigments.
4. New monoarylide and diarylide pigments
M. NAKPATHOM, D. HINKS & H.S. FREEMAN (USA)
- 107 The synthesis and properties of red and blue benzodifuranones
G. HALLAS (UK) & C. YOON (South Korea)
- 121 The synthesis and properties of naphthodifuranones and naphthofuranonepyrrolidones
G. HALLAS (UK) & C. YOON (South Korea)

- 133 Synthesis and keto-enol isomerism of 1-alkyl-2-methyl-5,6-dicyano-3-[2-(5-alkylamino-2,3-dicyanopyrazin-6-yl)-1-hydroxyethenyl]-pyrrolo[2,3-*b*]pyrazine
J. JAUNG, S.H. JEONG & S.H. KIM (South Korea)
- 143 The synthesis and application of fluorescent dyes based on 3-amino benzanthrone
I. GRABCHEV, V. BOJINOV & I. MONEVA (Bulgaria)
- 151 An approach to the photostabilization of dyes: the effect of UV absorbers containing a built-in photostabilizer moiety on the light fastness of acid dyes
H. ODA (Japan)

Short communication

- 159 An alternative approach to the production of fluorescent colored fibres
V.B. DISTANOV, V.F. BERDANOVA, Y.A. GURKALENKO (Ukraine) & V.V. PREZHDO (Poland)

Number 3

- 165 Interaction of cyanine dyes with nucleic acids. XX. New methods for the preparation of fluorescent probes based on benzothiazol-4-[2,6-dimethylpyridinium] cyanine dyes
S.M. YARMOLUK, D.B. KRYVOROTENKO & V.B. KOVALSKA (Ukraine)
- 173 A study of the metal complexing of naphthalene-2,3-crown ethers using fluorescence spectroscopy: Part III
G. YAPAR & Ç. ERK (Turkey)
- 179 Fate of copper in copper-complexed dyes during biological waste treatment III
G.L. BAUGHMAN (USA)
- 187 Dendrimers and dyes — a review
P.E. FROEHLING (The Netherlands)
- 197 *N*-hydroxy-monomethoxy-4-aminoazobenzenes: a computational study
K.L. BHAT, M. TRACHTMAN & C.W. BOCK (USA)
- 209 The aftertreatment of acid dyes on nylon 6,6 fibres: Part 2. Non-metallised acid dyes
S.M. BURKINSHAW, Y.-A. SON (UK) & M.J. BIDE (USA)
- 217 Disperse dyeing of nylon 6 fiber using gemini surfactants containing ammonium cations as auxiliaries
TAE-SOO CHOI, Y. SHIMIZU, H. SHIRAI & K. HAMADA (Japan)
- 227 Chloride sensitive probes for biological applications
C.D. GEDDES, K. APPERSON, J. KAROLIN & D.J.S. BIRCH (UK)
- 233 The effect of hydroxyarylbenzotriazoles containing a singlet oxygen quenching moiety on the photofading of dyes on a polymer substrate
H. ODA (Japan)
- 239 Synthesis and absorption properties of some new bis-1,8-naphthalimides
I. GRABCHEV, C. PETKOV & V. BOJINOV (Bulgaria)
- 245 The application of heterobifunctional reactive dyes to nylon 6,6: process modifications to achieve high efficiencies
S.M. BURKINSHAW, Y.-A. SON (UK) & M.J. BIDE (USA)

